

Claims

1. A hinge cover mechanism for an electric device with a folding casing being constituted by at least a first casing part and a second casing part, said parts adjoined by a hinge mechanism;
5 comprising:
 - a hinge cover component comprising at least first pivot means, which cooperate with second casing part to allow movement of said hinge cover component about first cover pivot axis and second pivot means, which cooperate with first casing part to allow both
10 linear movement of said hinge cover component and movement of said hinge cover component about second cover pivot axis.
2. The hinge cover mechanism according to claim 1, wherein during a pivot movement of said first casing part with respect to said second casing part about said hinge pivot axis there are defined two movement ranges:
15 a first range in which said hinge cover component substantially moves linearly and a second range in which said hinge cover component moves linearly backwards and performs a tilting movement by which a bottom part of the hinge cover component is lowered to touch a supporting surface and by which said first casing part is lifted with respect to said supporting surface.
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3. The hinge cover mechanism according to claim 1, wherein said hinge pivot axis, said first cover pivot axis and said second cover pivot axis are separate axes being spaced apart from each other at predefined distances, wherein said distance between said hinge pivot axis and said first cover pivot axis is substantially shorter than said distance between said hinge pivot
25 axis and said second cover pivot axis.
4. The hinge cover mechanism according to claim 1, wherein said substantially linear movement is substantially parallel to a resting surface of said first casing part.
- 30 5. The hinge cover mechanism according to claim 1, wherein said substantially linear movement is guided by groove elements.
6. The hinge cover mechanism according to claim 4, wherein said groove elements are elongated holes dimensioned to guide said second pivot means and to allow linear and pivot
35 movement thereof.

7. The hinge cover mechanism according to claim 1, wherein said tilting movement comprises an inclination of said hinge cover component at a cover inclination angle and an inclination of said first casing part at a casing inclination angle, wherein said cover inclination angle and said casing inclination angle are contra-inclining angles.

8. The hinge cover mechanism according to claim 1, wherein said hinge cover component substantially moves linearly in a direction away from said first casing part in said first movement range and said hinge cover component moves linearly backwards in a direction towards said first casing part in said second movement range.

9. The hinge cover mechanism according to claim 1, wherein said first casing part is lifted at a distance substantially beneath said second cover pivot axis.

10. The hinge cover mechanism according to claim 1, additionally comprising a locking mechanism that is at least adapted to prevent said folding casing from accidental opening.

11. The hinge cover mechanism according to claim 1, wherein said hinge cover component serves to protect at least electric conduction means routed through said hinge mechanism and connecting electric components enclosed in the casing parts; wherein the protection is maintained during any pivot movement.

12. An electric device with a folding casing being constituted by at least a first casing part and a second casing part, said parts adjoined by a hinge mechanism to allow for pivot movement about a hinge pivot axis established by said hinge mechanism, comprising:

- a hinge cover component comprising at least first pivot means, which cooperate with second casing part to allow movement of said hinge cover component about first cover pivot axis and second pivot means, which cooperate with first casing part to allow both linear movement of said hinge cover component and movement of said hinge cover component about second cover pivot axis.

13. The electric device according to claim 12, wherein during a pivot movement of said first casing part with respect to said second casing part about said hinge pivot axis there are defined two movement ranges :

a first range in which said hinge cover component substantially moves linearly and

a second range in which said hinge cover component moves linearly backwards performs a tilting movement by which a bottom part of the hinge cover component is lowered to

touch a supporting surface and by which said first casing part is lifted with respect to said supporting surface.

- 5 14. The electric device according to claim 12, wherein said hinge pivot axis, said first cover pivot axis and said second cover pivot axis are separate axes each being spaced apart from each other at predefined distances, wherein said distance between said hinge pivot axis and said first cover pivot axis is substantially shorter than said distance between said hinge pivot axis and said second cover pivot axis.
- 10 15. The electric device according to claim 12, wherein said substantially linear movement is substantially parallel to a resting surface of said first casing part.
- 15 16. The electric device according to claim 12, wherein substantially linear movement is guided by groove elements.
- 20 17. The electric device according to claim 16, wherein said groove elements are elongated holes dimensioned to guide said second pivot means and to allow linear and pivot movement thereof.
- 25 18. The electric device according to claim 12, wherein said tilting movement comprises an inclination of said hinge cover component at a cover inclination angle and an inclination of said first casing part at an casing inclination angle, wherein said cover inclination angle and said casing inclination angle are contra-inclining angles.
- 30 19. The electric device according to claim 12, wherein said hinge cover component substantially moves linearly in a direction away from said first casing part in said first movement range and said hinge cover component moves linearly backwards in a direction towards said first casing in said second movement range.
- 35 20. The electric device according to claim 12, wherein said first casing part is lifted at a distance substantially beneath said second cover pivot axis.
21. The electric device according to claim 12, additionally comprising a locking mechanism that is at least adapted to prevent said folding casing from accidental opening.
22. The electric device according to claim 12, wherein said hinge cover component serves to protect at least electric conduction means routed through said hinge mechanism and

connecting electric components enclosed in the casing parts; wherein the protection is maintained during any pivot movement.